

COMPACT DISC PLAYER

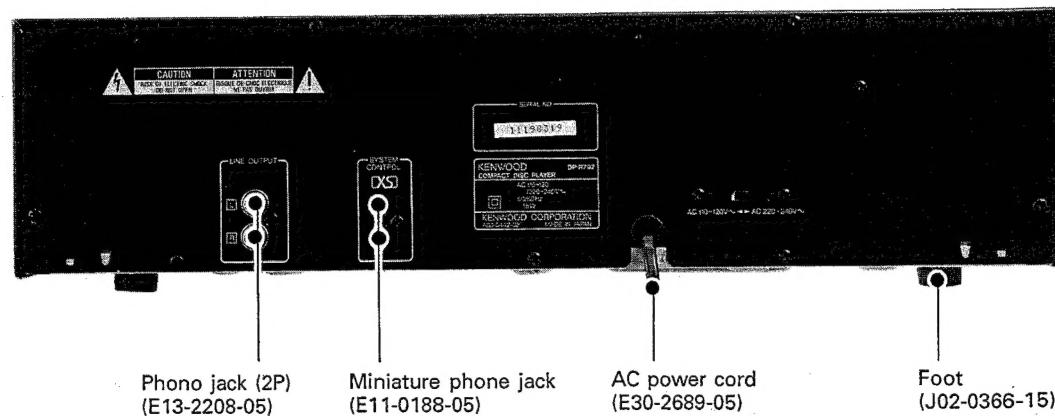
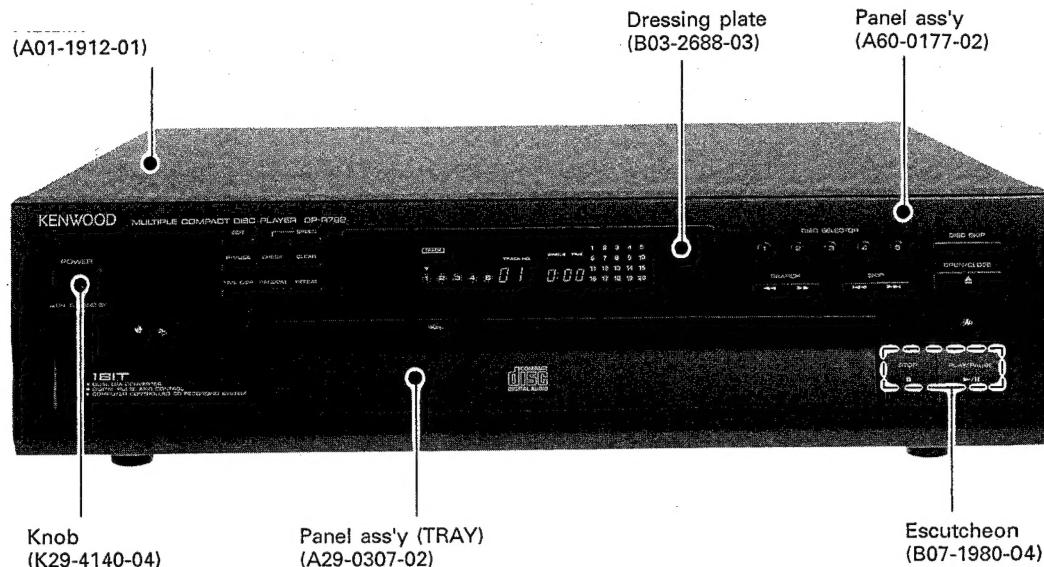
DP-R792/R892/R4440

SERVICE MANUAL

U.S.A. Use only

KENWOOD

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B51-4462-00 (O) 2365



In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

Photo is DP-R792.

KENWOOD-Corp. certifies this equipment conforms to DHHS
Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM.

DP-R792/R892/R4440

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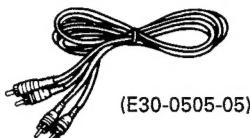
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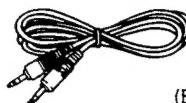
* Refer to DP-M991/ M6630 / M7730 service manual (B51-4281-00) and DP-7030 (B51-4244-00) if need circuit description CXA1571, TC9237, (DP-M serise) CXA1372Q, CXD2500Q (DP-7030).

ACCESSORIES

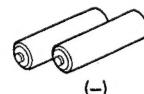
- Audio cord



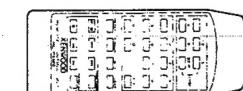
- System control cord



- Batteries (R6 / AA)



- Remote control unit



(A70-0508-05)

CAUTION

• Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.

• Caution of the service manual

This manual is available for U.S.A. models, DP-R792, DP-R892 and DP-R4440. Before using this manual, please check model's name. Control pcb ass'y (X32) parts list is written the parts for all of 3 models. Also refer to comparison table in schematic diagram.

TRACK	1	2	3	4	5
TRACK NO.	6	7	8	9	10
1	11	12	13	14	15
2	16	17	18	19	20
3	no disc				

Model name	Control pcb	Mechanism
DP-R792	X32-1900-12 (K,P)	X92-1610-10
DP-R892	X32-1900-11 (K,P)	X92-1610-10
DP-R4440	X32-1900-10 (K,P)	X92-1610-10

DP-R792/R892/R4440

EXTERNAL VIEW

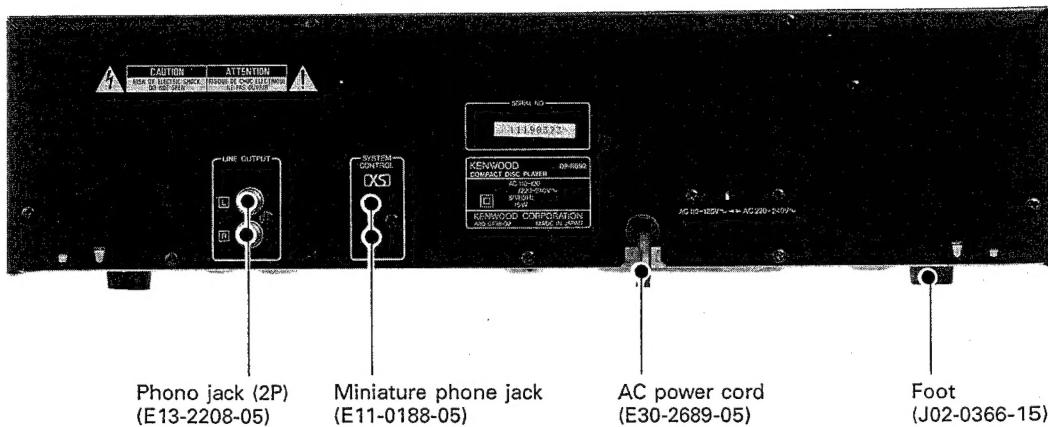
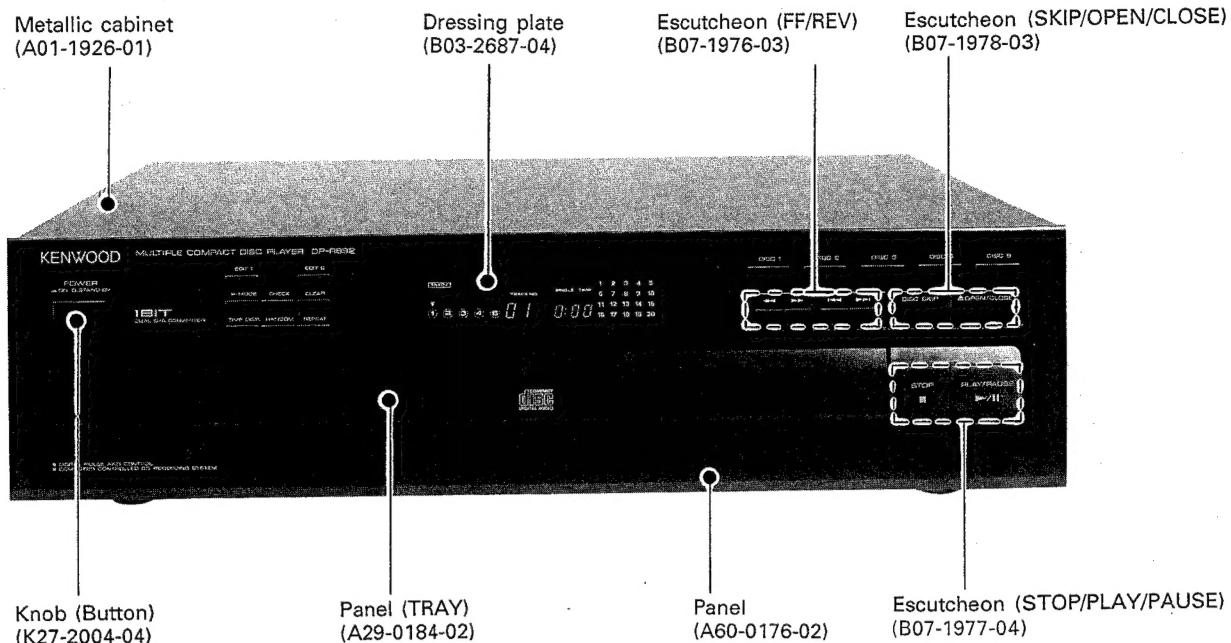


Photo is DP-R892.

DP-R792/R892/R4440

EXTERNAL VIEW

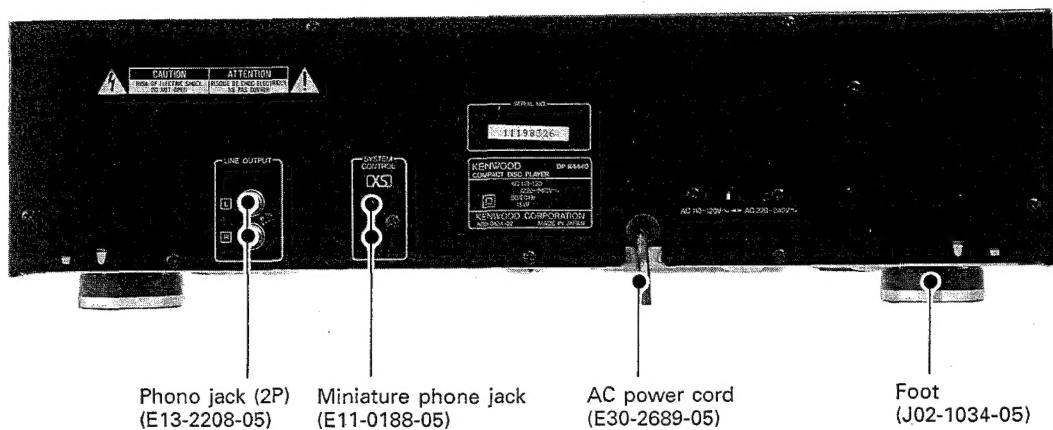
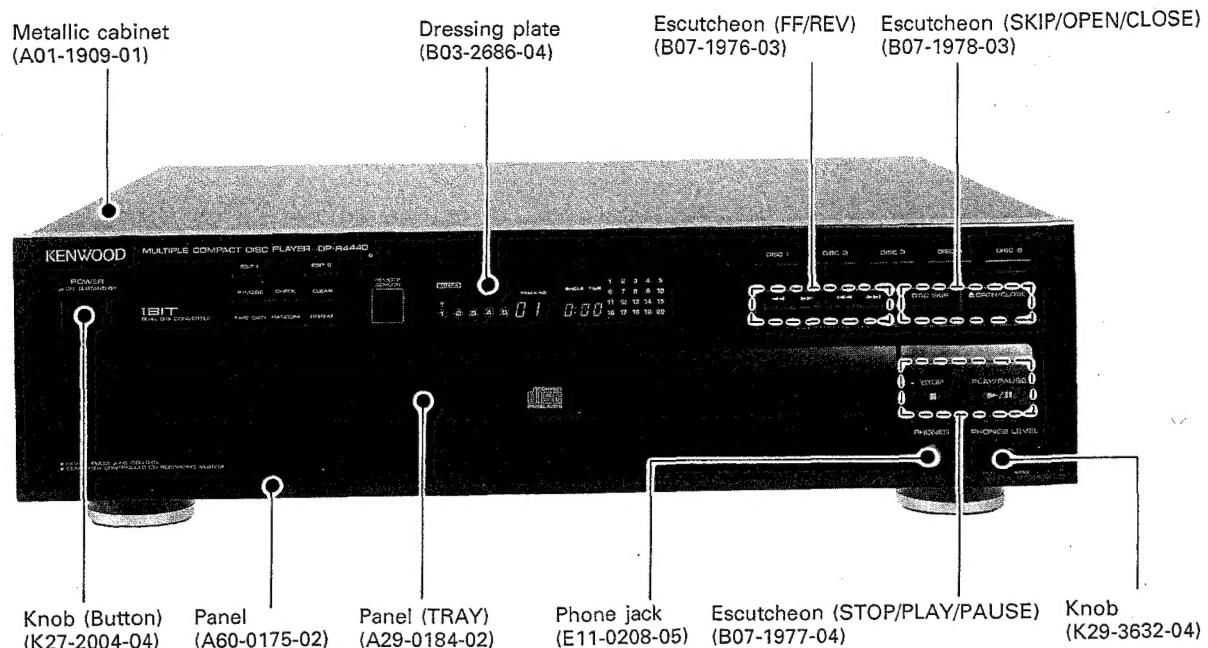


Photo is DP-R4440.

DP-R792/R892/R4440

CONTROLS

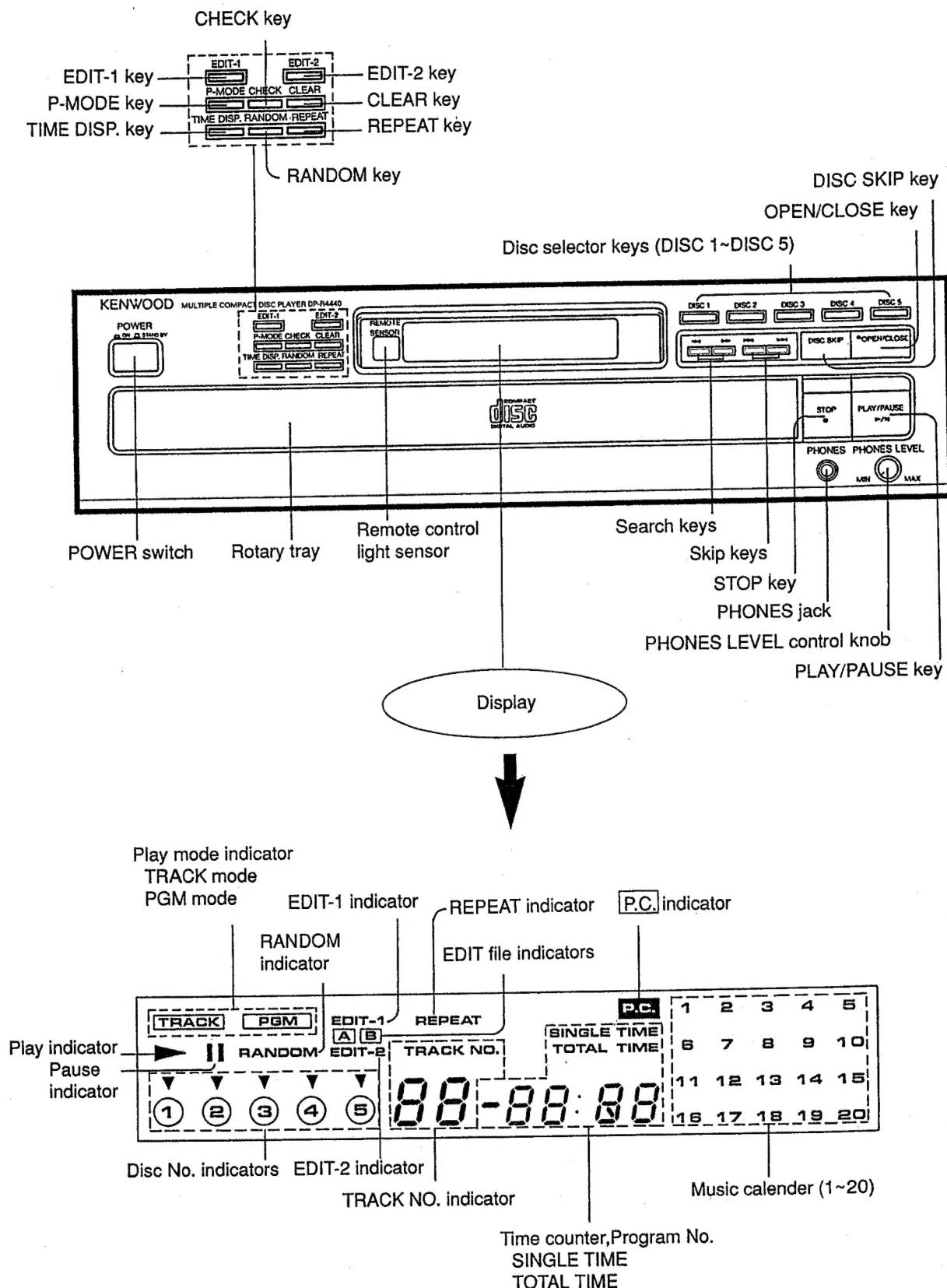


Fig. is DP-R4440.

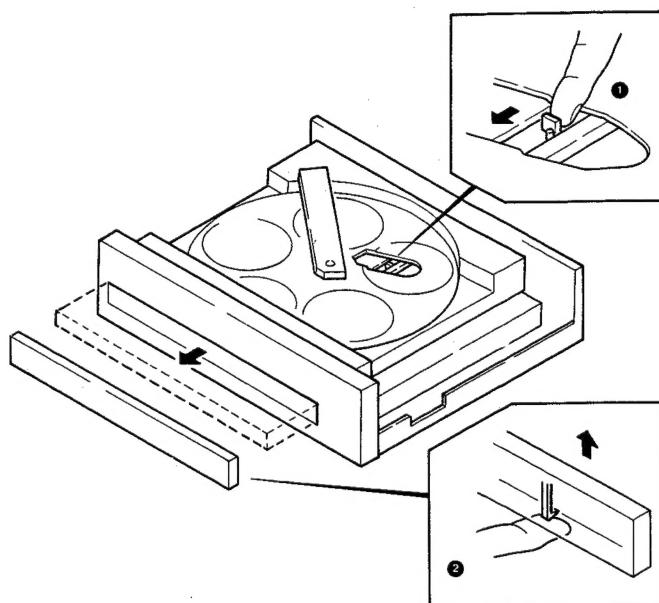
DP-R792/R892/R4440

DISASSEMBLY FOR REPAIR

* Remove the metallic cabinet before the following procedure.

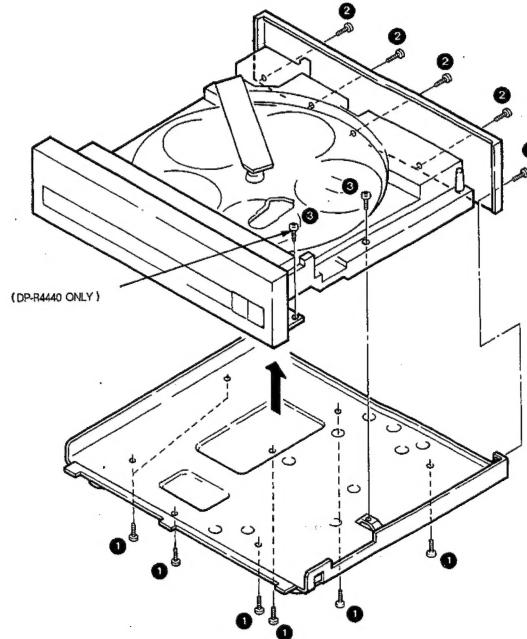
1. How To Remove the Tray and Tray panel

1. Slide the lever frontwards (1) until the tray comes out.
2. Pull the tray out fully.
3. Remove the tray panel upwards (2).



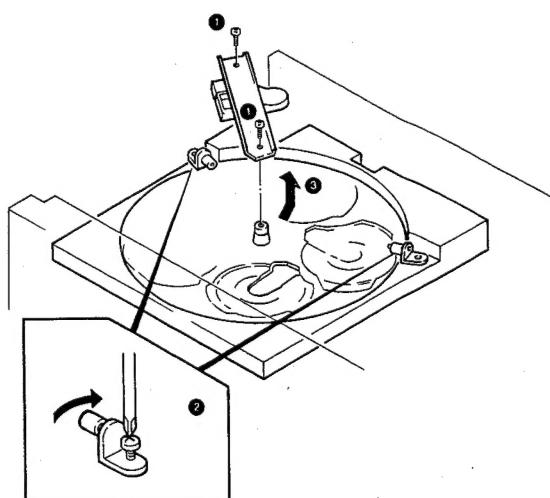
2. How To Remove the Bottom Plate

Remove bottom plate screws (1), rear panel screws (2) and chassis screws (3).



3. How to Remove Rotary Tray

1. Remove clamper screws (1).
2. Loosen roller screws (2) and turn them to free the tray.
3. Remove the rotary tray upwards (3).



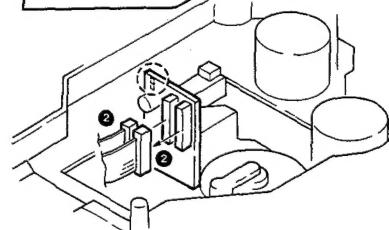
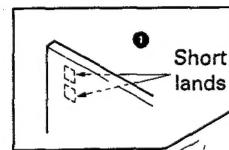
DP-R792/R892/R4440

DISASSEMBLY FOR REPAIR

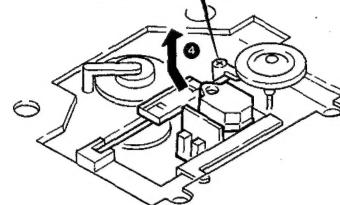
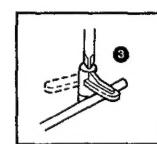
4. How to Replace Pickup

* Remove the rotary tray before the following procedures.

1. Short the short lands (1).
2. Remove 2 connectors (2).

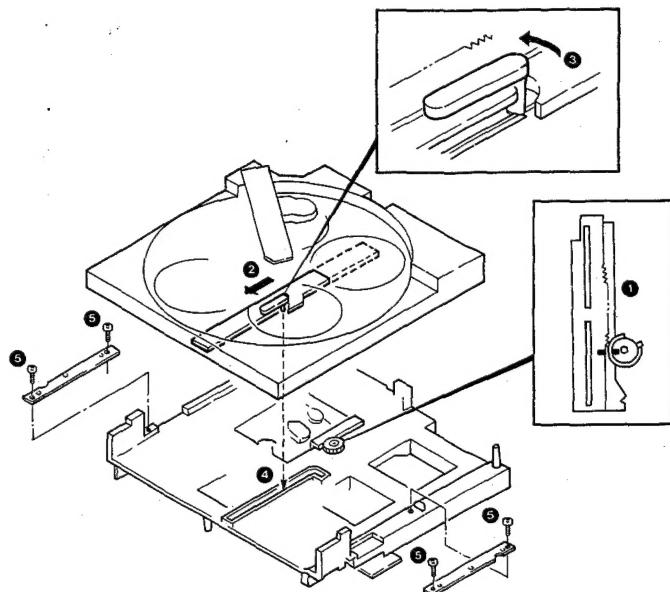


3. Turn the stopper (3).
4. Remove the pickup upwards (4).



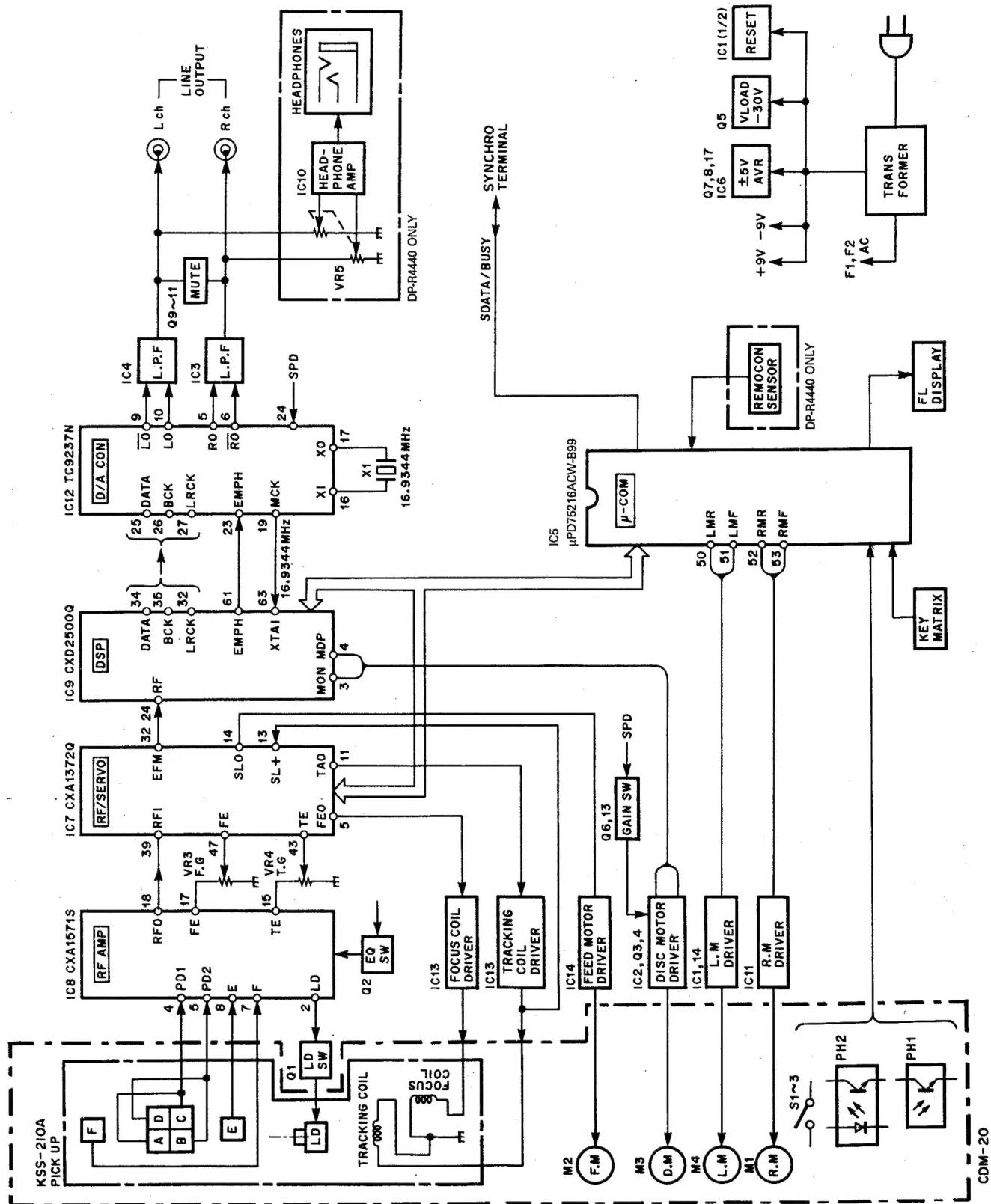
5. How to Mount Rotary Tray

1. Check the pickup mechanism is at down position and meet the mark of the gear to the boss of the pickup mechanism up/down gear (1).
2. Move the slide gear frontwards (2) and fix the lock lever to slide gear (3).
3. Insert the lock lever pin to the groove of the chassis (4).
4. Fix the hardware with screws (5).



DP-R792/R892/R4440

BLOCK DIAGRAM



DP-R792/R892/R4440

CIRCUIT DESCRIPTION

1. TEST MODE

• Setting the test mode

The microprocessor built in the unit can be put to TEST MODE by just short-circuiting the TEST pin #5 and #6 when set to power ON.

DP-R792/R892/R4440 is available to set to each test mode by UP key or DOWN key as follows.

1-1. Key and functions valid in test mode

STEP	Description	Track No. display
1	STOP MODE after setting TEST MODE	TRACK NO. 01
2	Turn Rotary-tray with opening it, and shows time of tray-open.	TRACK NO. 02
3	Turn Rotary-tray with closing it, and shows time of tray-close.	TRACK NO. 03
4	(1) Focus servo ON. (2) Tracking servo ON. (3) Feed servo ON.	TRACK NO. 04 ↓ ► Time lights
5	(1) Tracking OFF. (2) Focus servo ON. (3) Tracking servo OFF. (4) Feed servo OFF.	TRACK NO. 05 II lights
6	Same step "4".	TRACK NO. 06 ↓ ► time lights
7	Confirm position of start limit switch, shows time of setting it to on.	TRACK NO. 07
8	Set it to program mode, playback Tracking No. 7, 8 and 6 (High-speed).	

DP-R792/R892/R4440

CIRCUIT DESCRIPTION

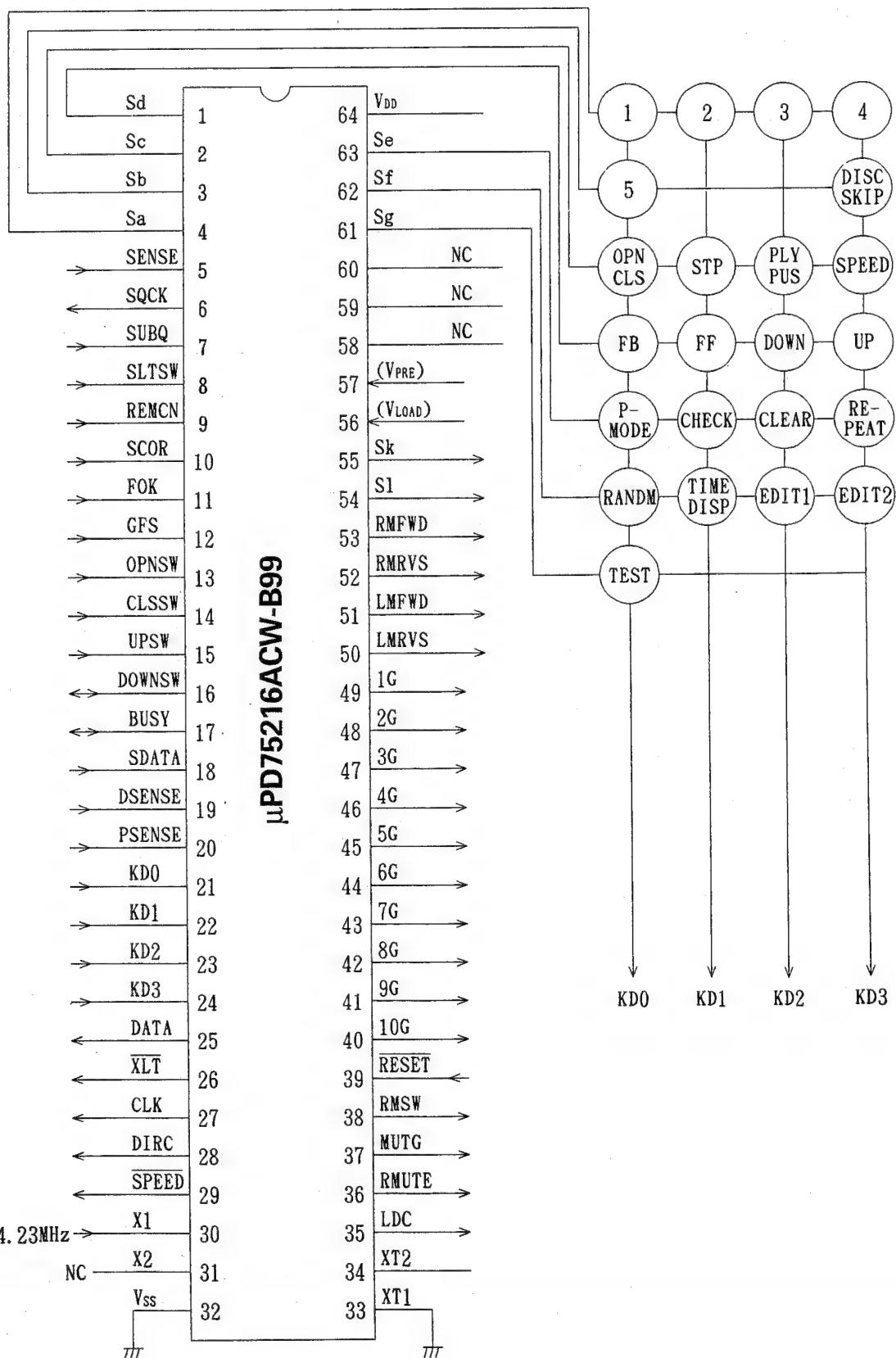
No.	Input key	Function	Track No. display
1	PLAY	(1) Focusing servo ON. (2) Tracking servo ON. (3) Feed servo ON.	TRACK NO. 04 ► (PLAY) lights.
2	CHECK	(1) Focusing servo ON. (2) Tracking servo OFF. (3) Feed servo OFF.	TRACK NO. 05 (II) Pause lights.
3	STOP	In STOP mode. Disc is loaded.	TRACK NO. 01
4	▶ (UP)	Change TEST mode (UP).	
5	◀ (DOWN)	Change TEST mode (DOWN).	
6	▶▶	In the PLAYBACK mode, jumps the pickup outwards (16 tracks). In the STOP mode, the pickup slightly outwards.	
7	◀◀	In the PLAYBACK mode, jumps the pickup inwards (16 tracks). In the STOP mode, the pickup slightly inwards.	
8	OPEN/CLOSE	When the tray is opened then track No. 7, 8 and 6 (High-speed) are programmed and playback. TEST mode is canceled.	
9	DISC SKIP	In SKIP mode.	
10	P-MODE	Track No. 7, 8 and 6 (High-speed) are programmed and playbacked. TEST mode is canceled when pressing it again after playback.	
11	REPEAT	The tray OPEN / CLOSE operation is available without canceling TEST mode.	
12	TIME DISP	Turn ON / OFF the FL display.	
14	SPEED*	Set the port condition to High-speed mode, and set it to normal speed when pressing SPEED key again.	
15	DISC SELECTOR	Shows time of tray-rotation. (1) Clockwise a turn time. (2) Counterclockwise a turn time.	

*DP-R792 only

DP-R792/R892/R4440

2. Microprocesseor : μPD75216ACW-B99 (IC5)

2-1. Terminal connection diagram



DP-R792/R892/R4440

CIRCUIT DESCRIPTION

2-2. Explanation of terminals (μPD75216ACW-B99)

Pin No.	Pin name	I/O	Function
1 ~ 4	Sd-a	O	Segment (d ~ a)
5	SENSE	I	Signal detection terminal for SENSE signal from Digital Signal Processor
6	SQCK	O	Clock output of Q data input
7	SUBQ	I	Q data input
8	SLTSW	I	Start limit switch for pickup
9	REMCN	I	Remote control input
10	SCOR	I	SCOR input of Q data
11	FOK	I	Focus OK signal input
12	GFS	I	Spindle lock
13	OPNSW	I	Tray open switch
14	CLSSW	I	Tray close switch
15	UPSW	I	Mechanism-up switch
16	DOWNSW	I	Mechanism-down switch
17	BUSY	I/O	System control signal (BUSY)
18	SDATA	I/O	System control signal (DATA)
19	DSENSE	I	Disc sensor
20	PSENSE	I	Disc position sensor
21 ~ 24	KD0 ~ 3	I	Key input (0bit ~ 3bit)
25	DATA	O	Data signal to signal processor
26	XLT	O	XLT signal to signal processor
27	CLK	O	Clock signal to signal processor
28	DIRC	O	Control signal for jump brake
29	SPEED	O	Double-speed playback control (H : NORMAL / L : DOUBLE)
30	X1	I	Clock input (4.23MHz)
31	X2	I	Non-connection
32	Vss	-	Ground
33,34	XT1,2	I	Non-connection
35	LDC	O	Laser on
36	RMUTE	O	Analog mute
37	MUTG	O	Digital mute
38	RMSW	O	Rotary tray motor speed-down
39	RESET	I	Reset signal input
40 ~ 49	10G ~ 1G	O	Display grid (10G ~ 1G)
50	LMRVS	O	Tray motor 1
51	LMFWD	O	Tray motor 2
52	RMRVS	O	Rotary motor 1
53	RMFWD	O	Rotary motor 2
54,55	SI,k	O	Non-connection
56	VLOAD	I	VLOAD input (-30V)
57	VPRE	I	VPRE input (-5V)
58 ~ 60	Sh ~ j	O	Non-connection
61 ~ 63	Se ~ g	O	Display segments (e ~ g)
64	VDD	-	Power supply (+5V)

DP-R792/R892/R4440

MECHANISM OPERATION DESCRIPTION

Feed motor (F.M) Disc motor (D.M) Pickup (P.U) Limit sw (S1) Rotary-tray motor (R.M)

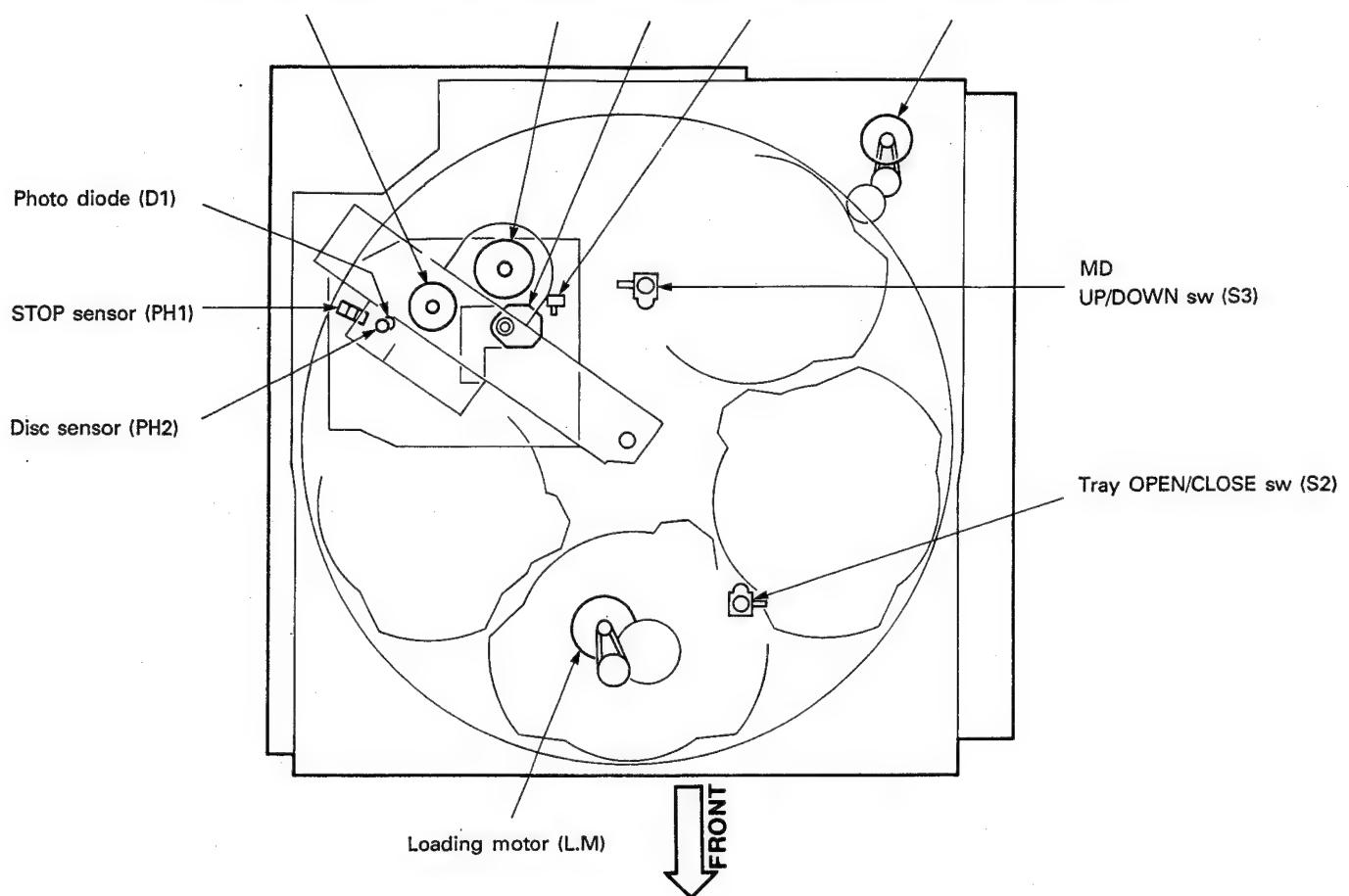


Fig. 1

1. Disc Detection

If rotary-tray motor (RM) is turnning clockwise, the tray rotary turns same direction. Confirm check of disc presence and disc number by photo transistor (PH2). Stop position is detected by photo interrupter (PH1).

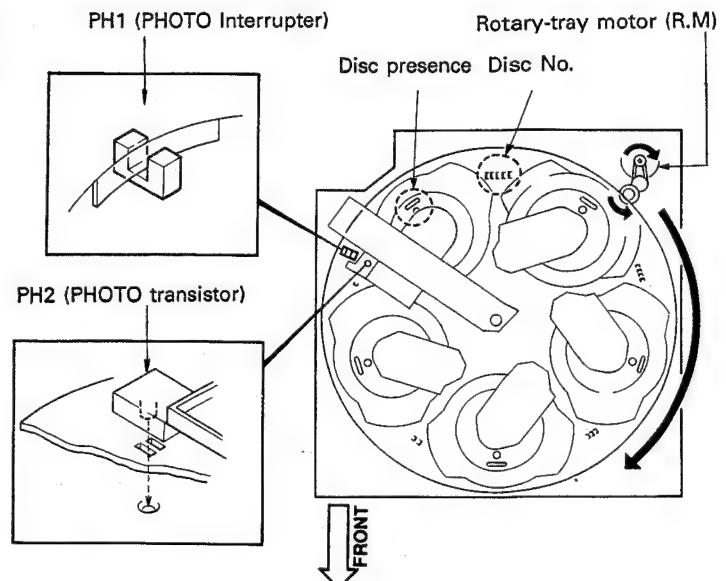


Fig. 2

DP-R792/R892/R4440

MECHANISM OPERATION DESCRIPTION

2. Open and Close Operation

If tray loading motor (LM,M4) turns counterclockwise, the slide gear moves frontwards with lock lever fixed the rear of the tray. And then tray open/close switch (S2) is set to open mode.

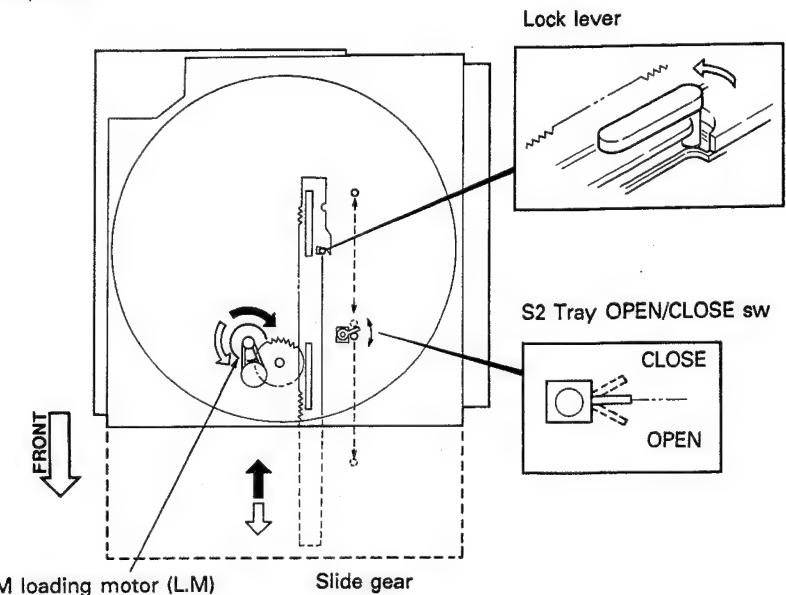


Fig. 3

If tray loading motor turns clockwise, the tray moves backwards on the way with the lock lever but slider gear goes on backwards and engages for mechanism up/down gear. Slide gear moves and the loading motor (S3) until pickup mechanism is at fully up or down position.

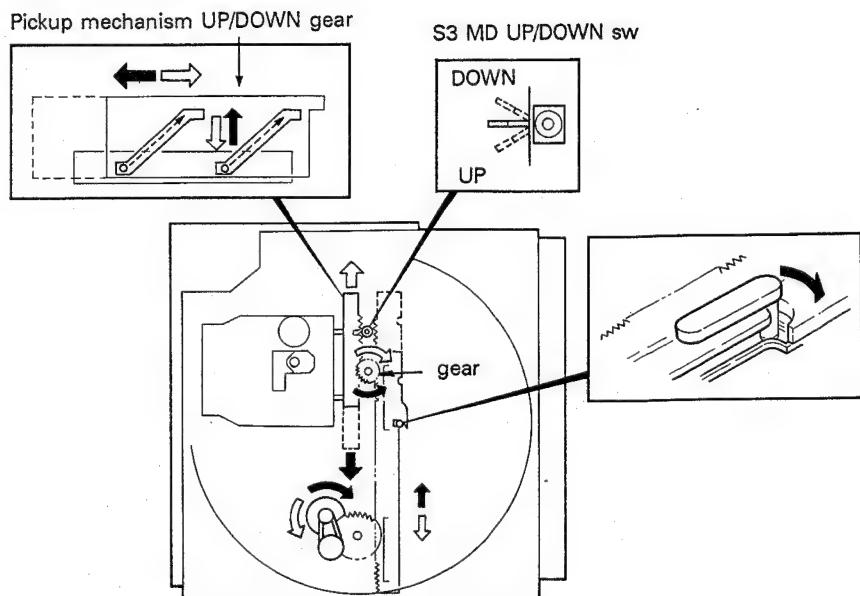


Fig. 4

DP-R792/R892/R4440 ADJUSTMENT

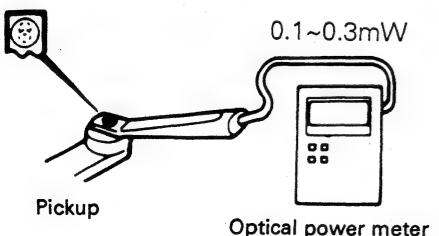
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG
1	LASER POWER	—	—	Apply the sensor section of the optical power meter on the pickup lens.	Short-circuit pins TEST and turn the power on to enter the test mode. Press the MANUAL S. key (►) to move the pickup outwards. Press the CHECK key to check that the LD emits light. Then, confirm that the display is "05".	On the power from 0.1 to 0.3mW, when the diffraction grating is correctly aligned with the RF level of 1.0Vp-p or more and the TE (servo open) level of 1.5Vp-p or more, the pickup is acceptable.	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN9-1) CH2: TE (CN9-6)	Turn power switch off and set the unit to test mode again. Press the key to open the tray. Load a test disc and press the key. Then press the CHECK key. Confirm that the display is "05".	VR2	Symmetry between upper and lower or DC=0±0.05V	(b)
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF(CN9-1) CH2: TE(CN9-6)	Press the PLAY key. Confirm that the display is "05".	VR1	Optimum eye pattern	(c)
4	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN9 pin 2-3.	Connect a LPF to CN9 pin 2-3 to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	VR3	Two VTVMs should read the same value.	(d)
5	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN9 pin 5-6.	Connect an LPF to CN9 pin 5-6 to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	VR4	Two VTVMs should read the same value.	(d)

(Note) Type 4 disc: SONY YEDS-18 Test Disc or equivalent.

LPF: Around $47k\Omega + 390pF$ or so.

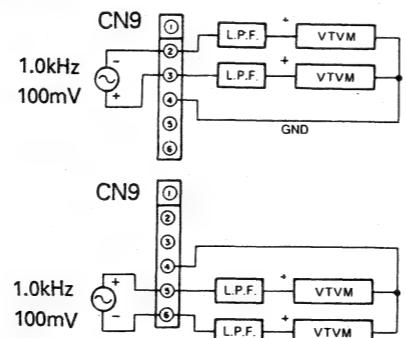
Steps 1~5 are in Test Mode.

(a) Laser Power

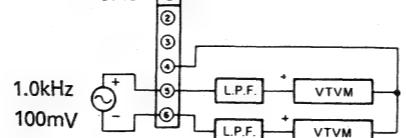


(d) Focus Gain and Tracking Gain Adj.

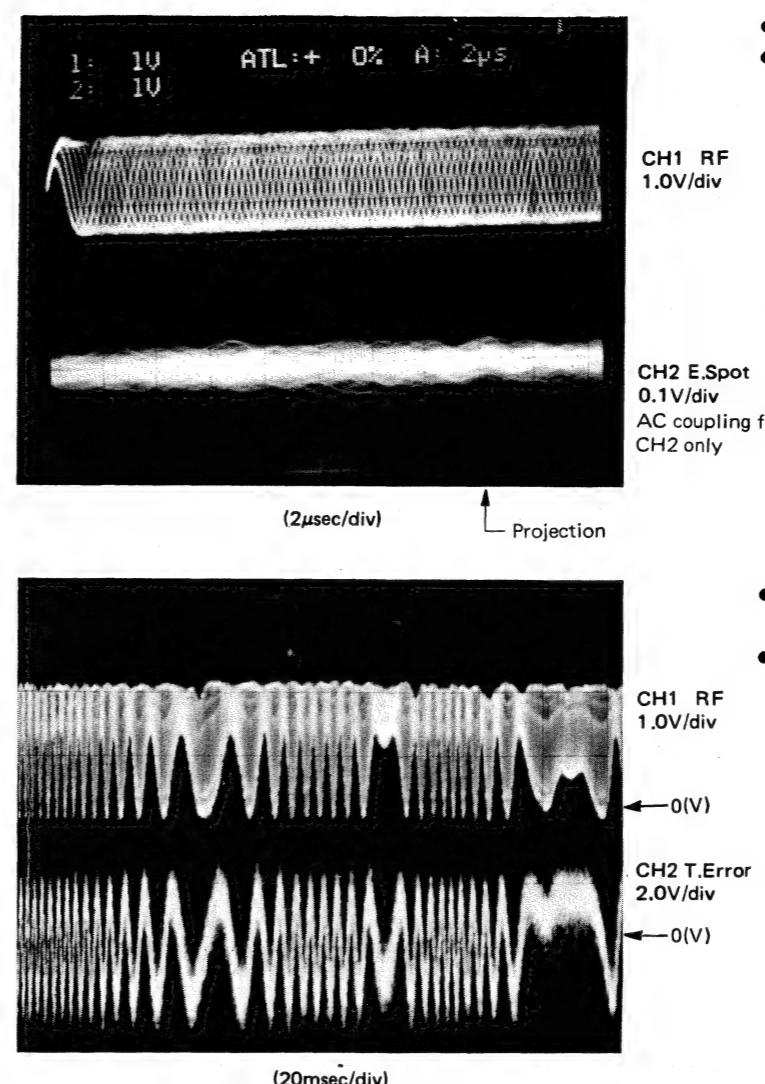
Focus gain Adj.



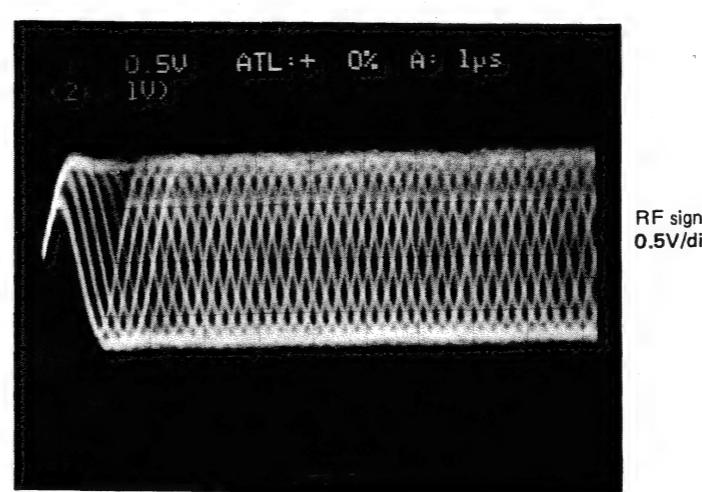
Tracking gain Adj.



DP-R792/R892/R4440 ADJUSTMENT

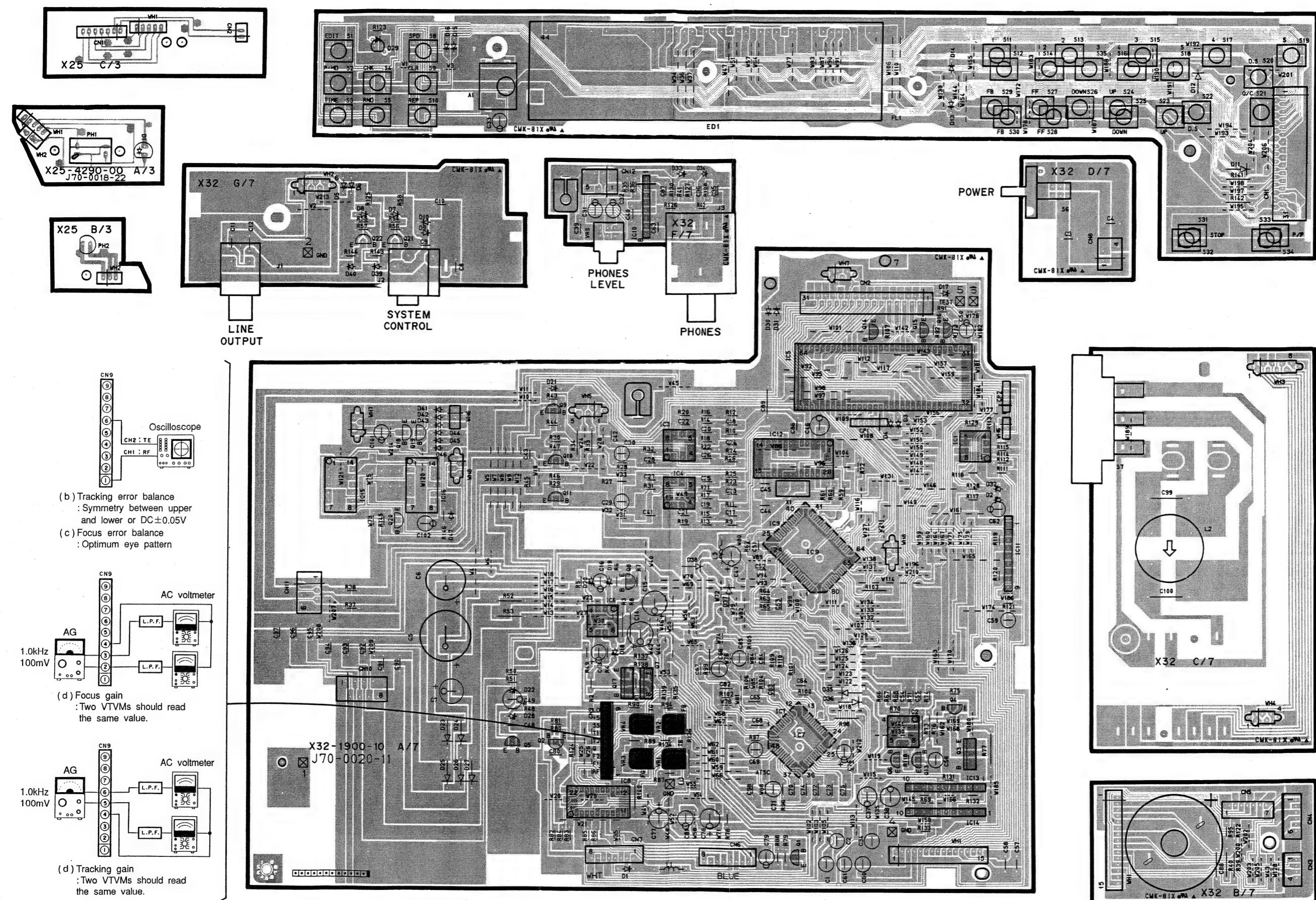


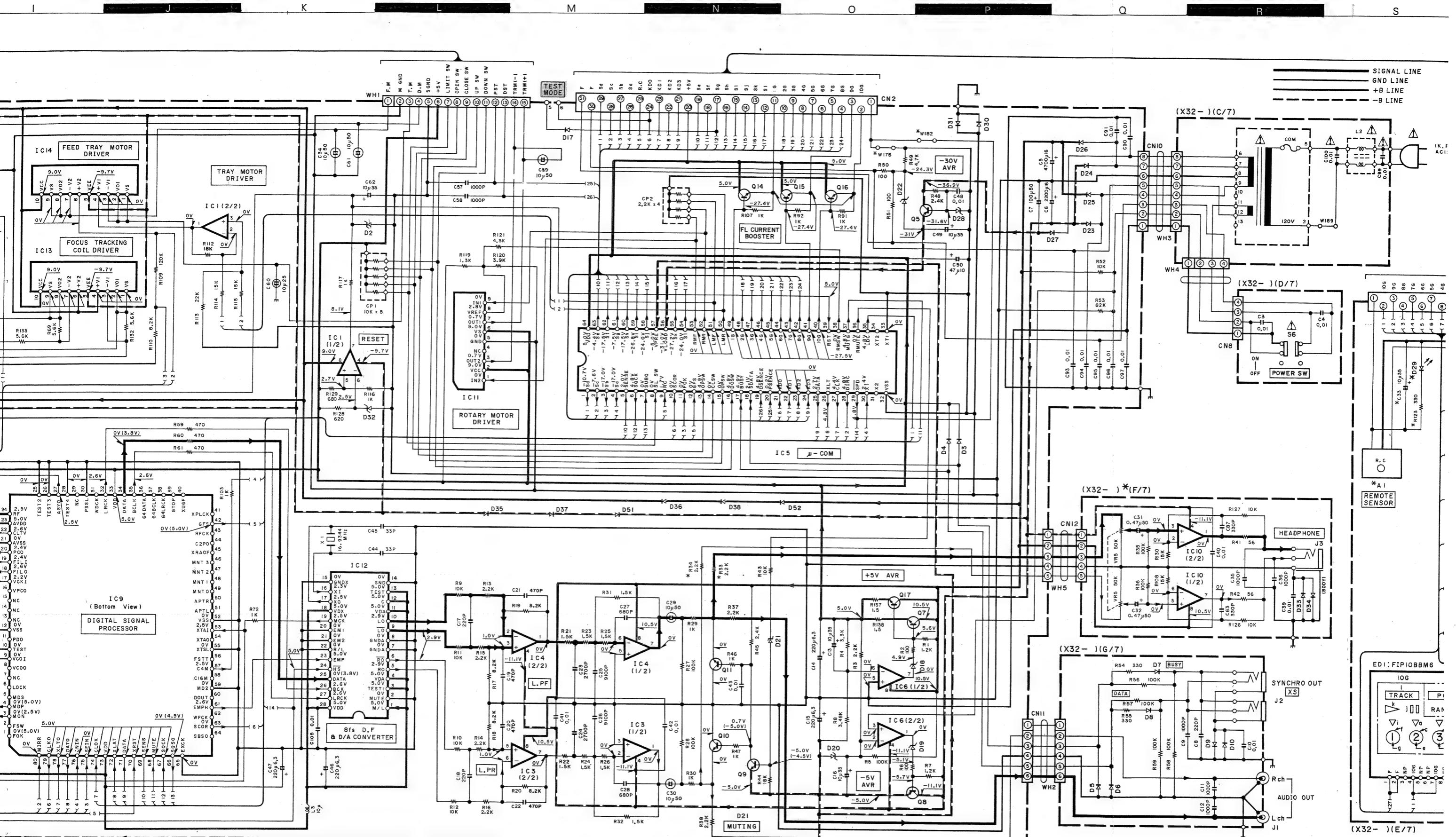
- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 18μs after RF signal, in the form of a projection.



- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset adjustments so that each of the center cross points are focused into one point on the display. The crossing points above and below the center shall also be displayed clearly.

PC BOARD (COMPONENT SIDE VIEW)



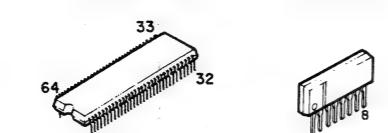
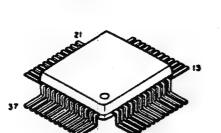
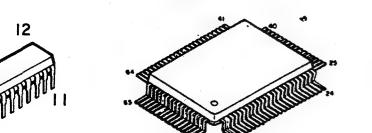


CXD2500AQ

CXA1372Q

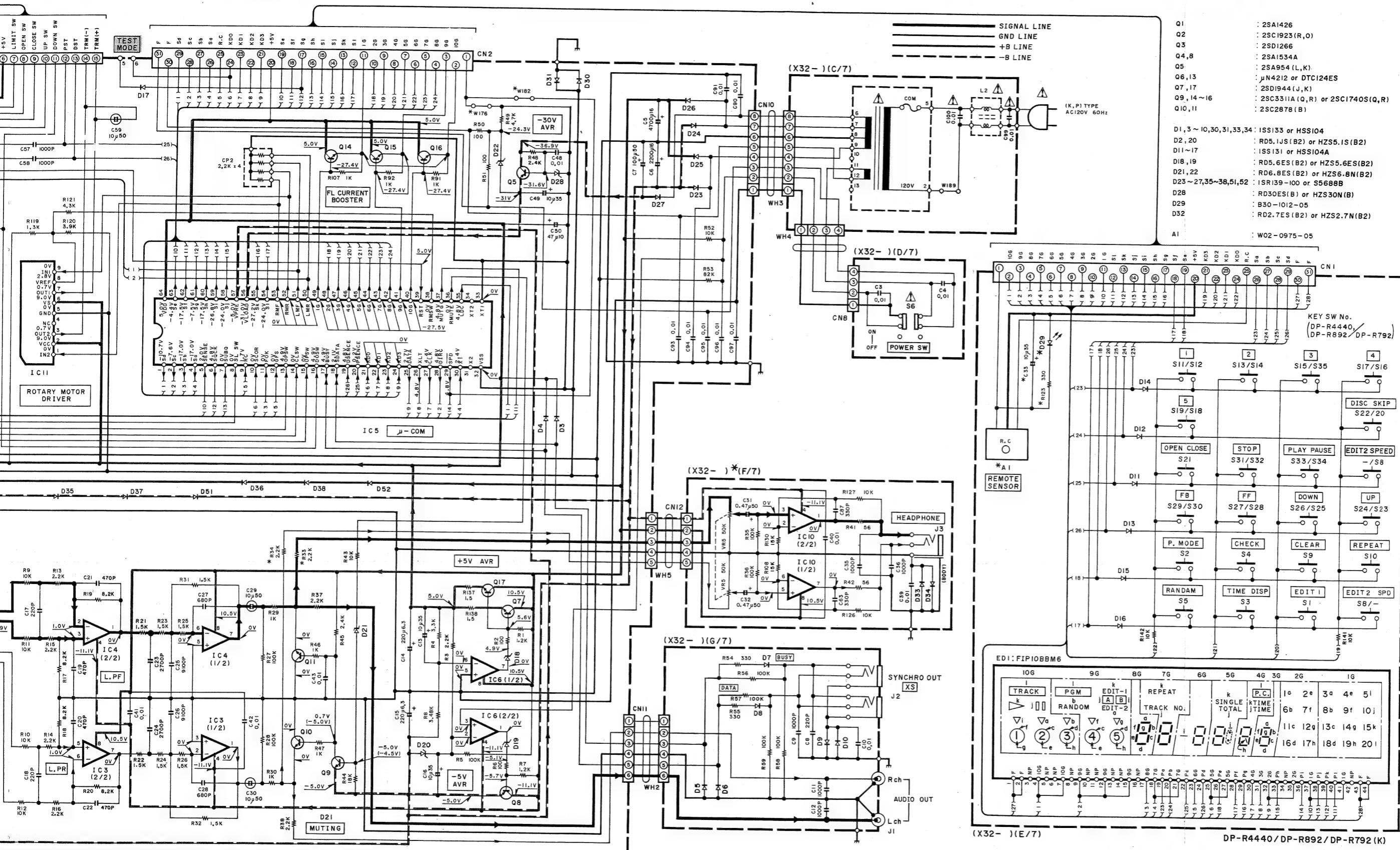
UPD75216ACW-B99

NJM4565L



• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). \triangle Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



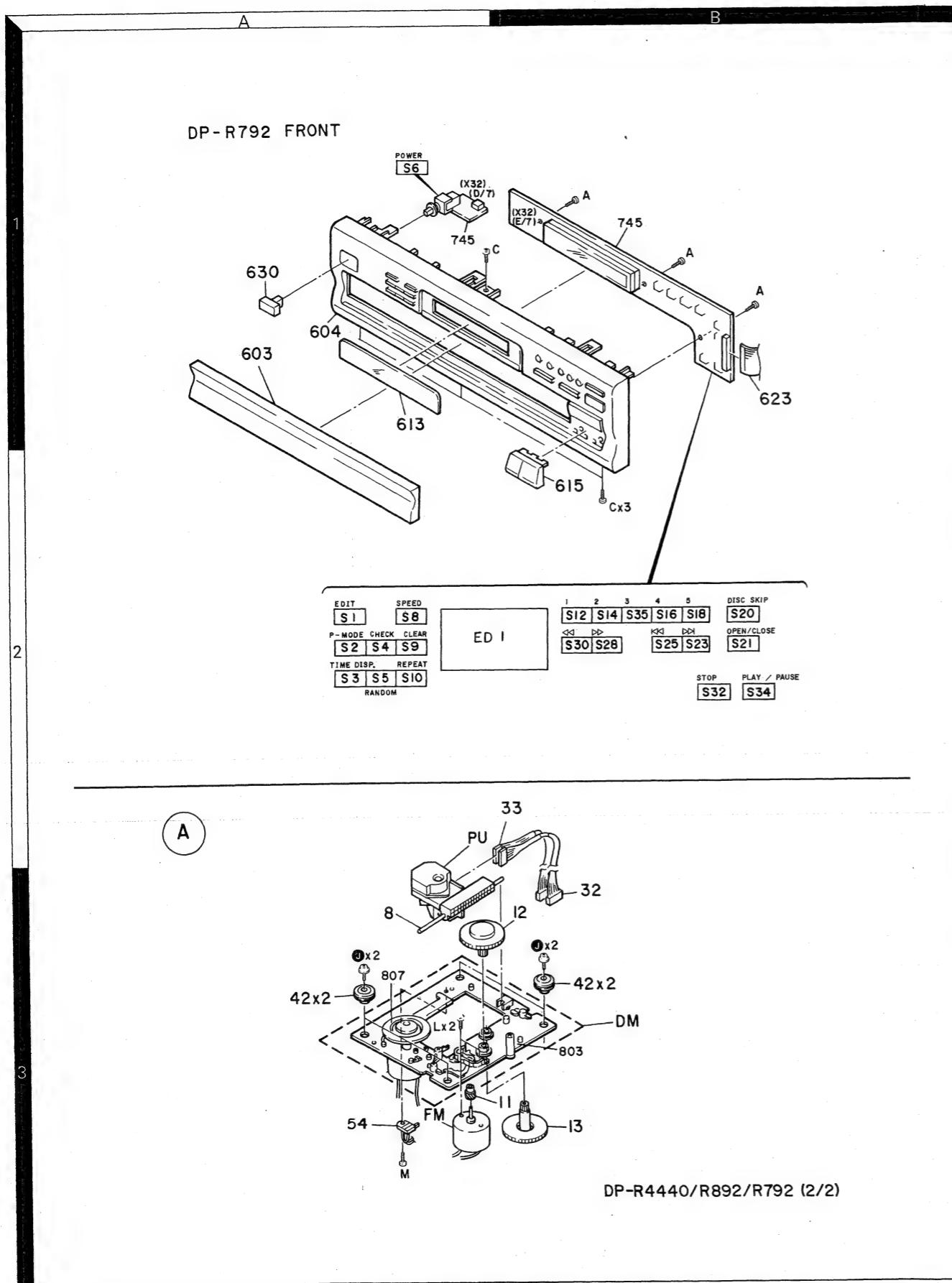
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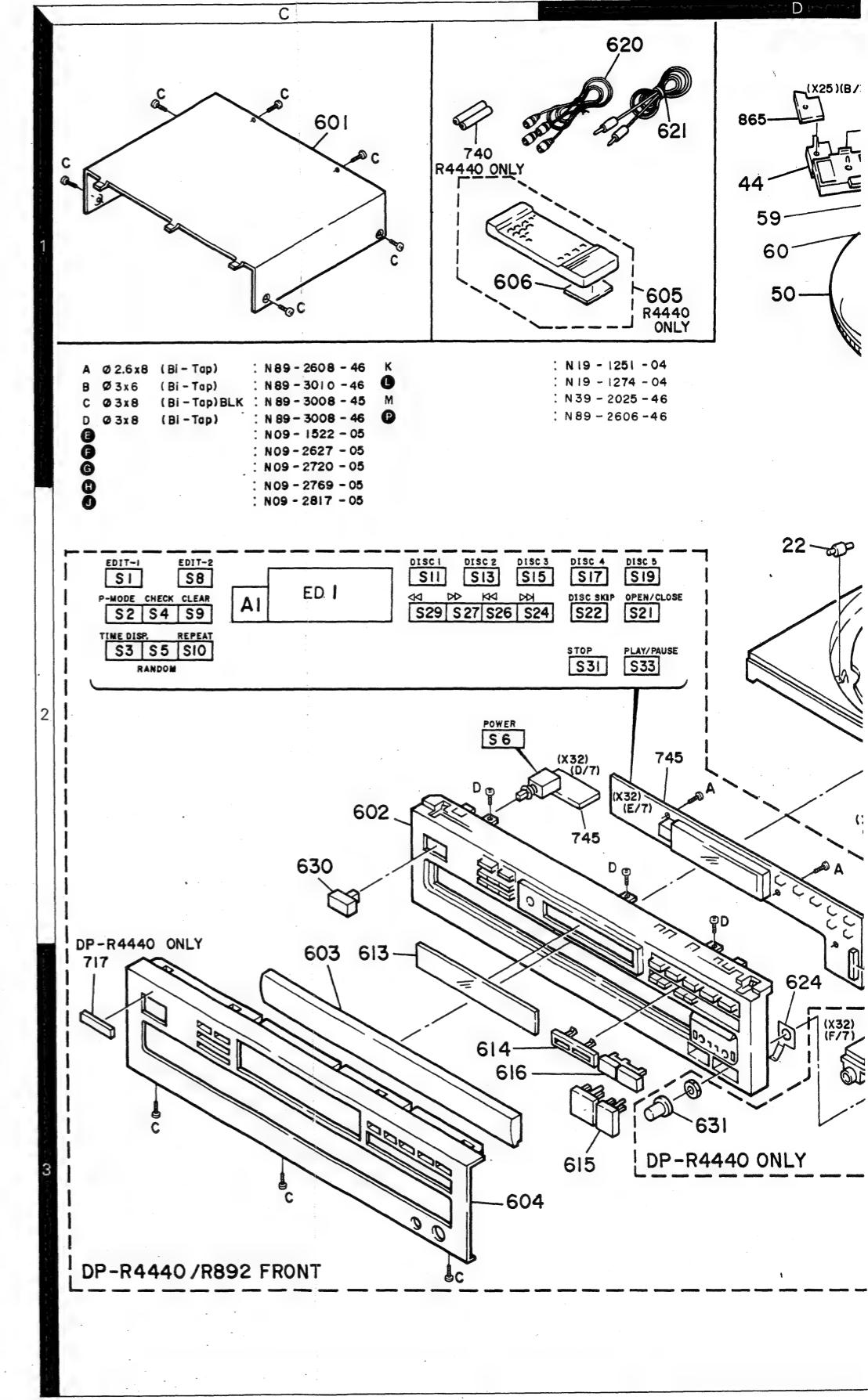
Y22-2840-10

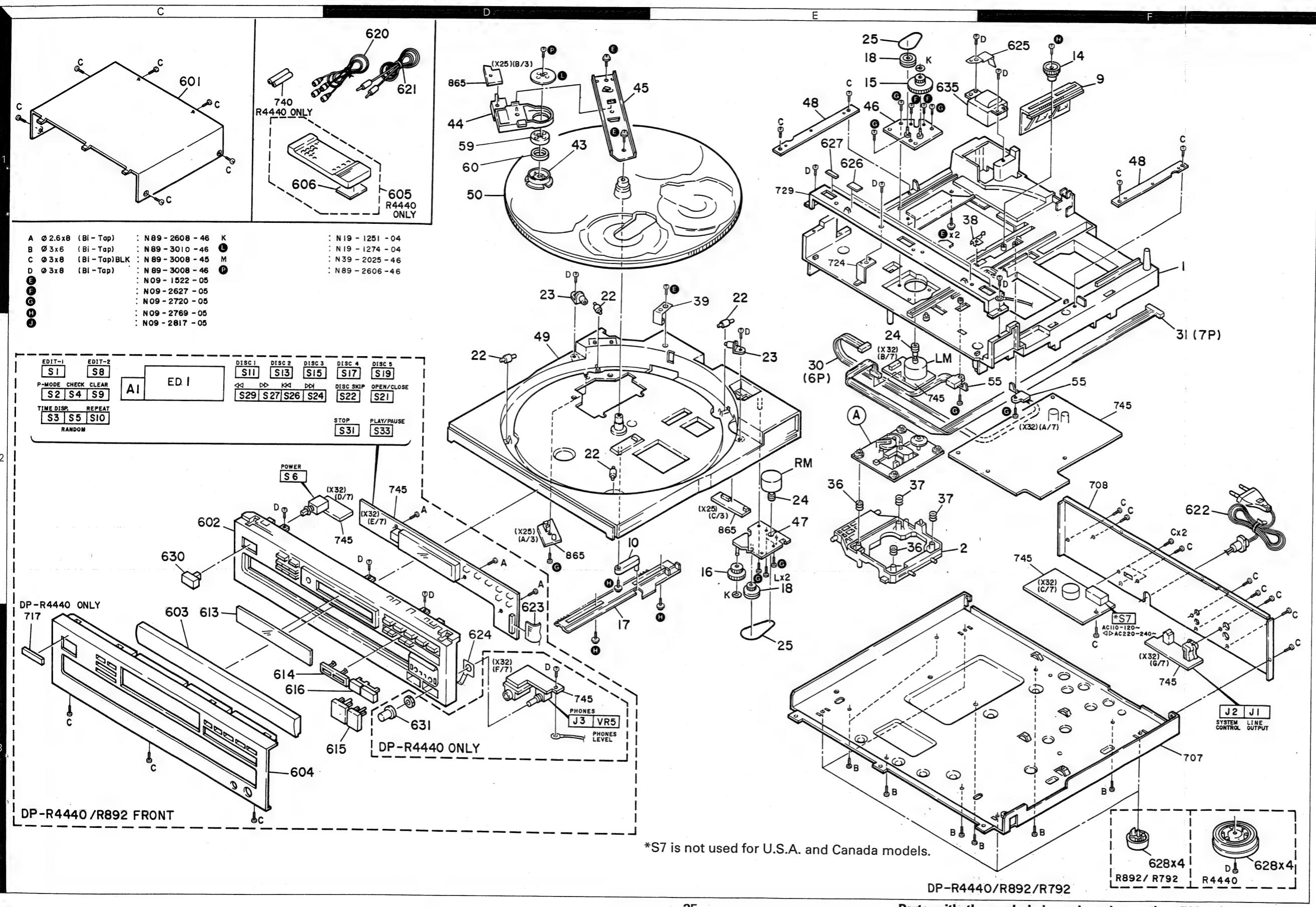
DP-R792/R892/R4440
KENWOOD

EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.





*S7 is not used for U.S.A. and Canada models.

Parts with the exploded numbers larger than 700 are not supplied.

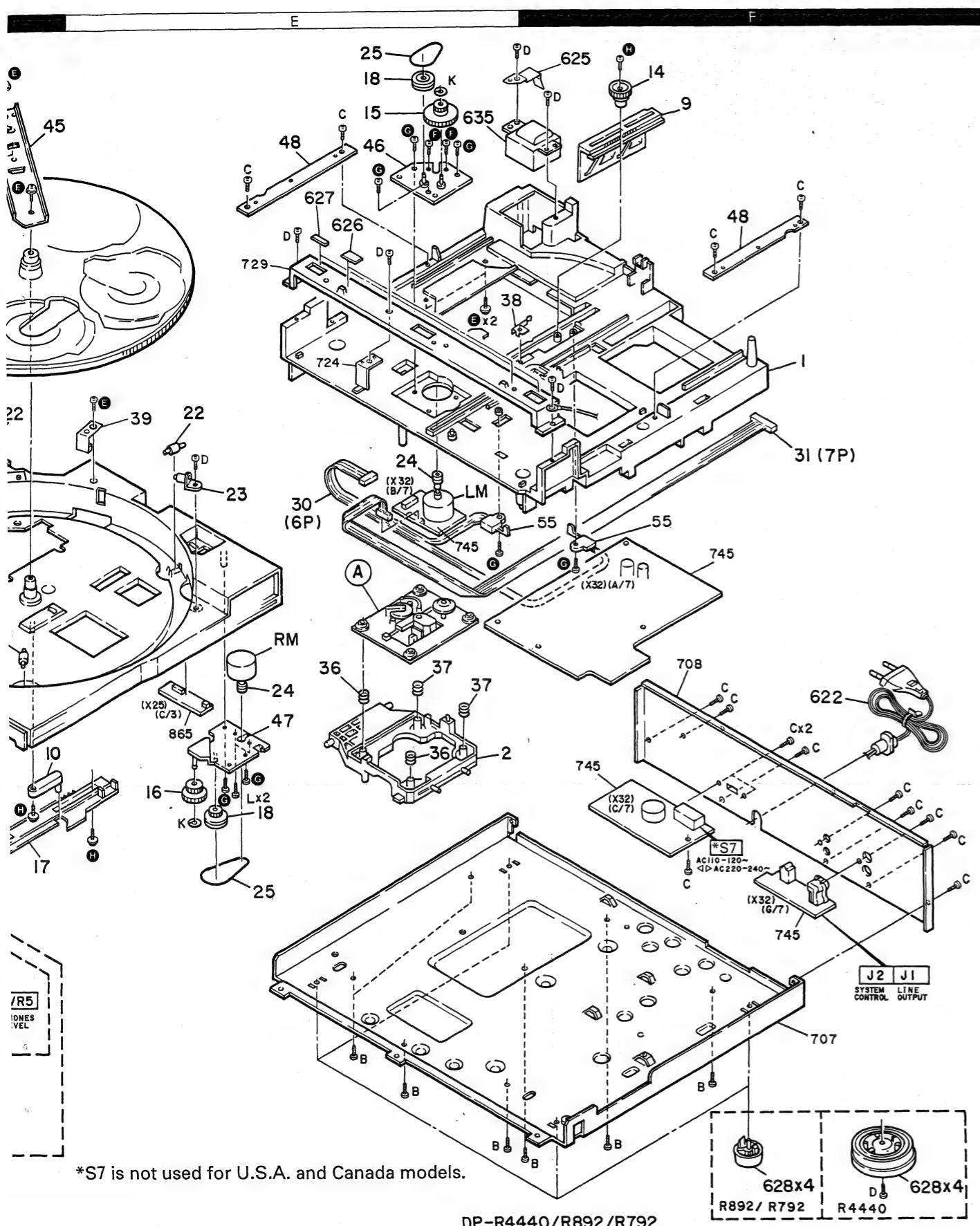
Ref. No.	参照番号	Address	部品番号	Parts No.	Description	Desti- nation 仕 事	Re- marks 備考
-	-	-	H10-5144-02		POLYSTYRENE FOAMED FIXTURE		
-	-	-	H10-5145-02		POLYSTYRENE FORMED FIXTURE		
-	-	*	H11-0039-04		POLYSTYRENE FORMED BOARD		
-	-	*	H12-209-04		PACKING FIXTURE		
-	-	*	H21-0287-04		PROTECTION SHEET		

Ref. No.	Address	Parts No.	Description			Desti- nation marks 向 標
参照番号	位 置	部 品 番 号	部 品 名	規 格		
DP-R792						
601	1C	A01-1912-01	METALLIC CABINET			
603	1A	A29-1307-02	PANEL ASSY (TRAY)			
604	1A	A60-0177-02	PANEL ASSY			
611	1A	R01-2688-01	PRINTING PLATE			

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

- **New Parts**
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

PARTS LIST



*S7 is not used for U.S.A. and Canada models.

Parts with the exploded numbers larger than 700 are not supplied

25

26

Canada/USA	X(Far East, Hawaii)	T:England	E:Europe

PARTS LIST

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Ref. No.	参照番号	Parts No.	部品番号	Description	部品名 / 規格	Desti- nation mark 仕
779		C804KWH1V100M		ELECTR®	10UF	35W
830		CC45FSL1H330J		ELECTR®	33PF	J
881		C804KWA101M		ELECTR®	100UF	10W
882 , 83		CC45FSL1H101J		CERAMIC	100PF	J
884		C92FNMH103J		NYLAR	0.010UF	J
885		C90-133-05		NP-ELEC	22UF	10W
887		CC45FSL1H331J		CERAMIC	330PF	J
888		C91-079-05		CERAMIC	0.01UF	K
890 , 91		CK45FF1H103Z		CERAMIC	0.010UF	Z
893 , 97		CK45FF1H103Z		CERAMIC	0.010UF	Z
898		CF92FVH564J		HF	0.56UF	J
929 , 100		C91-091-05		FLM	0.01UF	250W
C103		CC45FSL1H181C		CERAMIC	5.0PF	C
C104		C92FNMH103J		CERAMIC	180PF	J
C105		C92FNMH103J		NYLAR	0.010UF	J
U1		E13-2208-05		PHONE JACK (2P)		
U2		E11-0168-05		MINIATURE PHONE JACK		
U3		E11-0208-05		PHONE JACK		
L1		L40-1001-17		SMALL FIXED INDUCTOR(10UH, K)		
L2		L79-0733-05		LINE FILTER		
L3		L40-1001-17		SMALL FIXED INDUCTOR(10UH, K)		
K1		L7-1164-05		CRYSTAL RESONATOR(16.334MHz)		
C1		R90-0856-05		MULTI-COMP		
C2		R90-0852-05		MULTIPLE RESISTOR 2.2KX4	J	1/6W
R8		RN14BK203481F		RN	3.48K	F
R77		RS14KB344R7J		FL-PROOF RS	4.7	1W
VRL1 , 2		R12-3686-05		TRIMMING POT.(22K)		
VRS3 , 4		R12-3685-05		TRIMMING POT.(10K)		
VRS		R10-4019-05		POTENOMETER(50KX2)		
S1	-5	2A, 2C		S40-1064-05	PUSH SWITCH	
S6	-5	2C		S40-2370-05	PUSH SWITCH(POWER)	
S8	-10	2A, 2C		S40-1064-05	PUSH SWITCH	
S11		2C		S40-1064-05	PUSH SWITCH(1)	
S12		2B		S40-1064-05	PUSH SWITCH	
S13		2C		S40-1064-05	PUSH SWITCH(2)	
S14		2B		S40-1064-05	PUSH SWITCH(2)	
S15		2C		S40-1064-05	PUSH SWITCH(3)	
S16		2B		S40-1064-05	PUSH SWITCH(4)	
S17		2D		S40-1064-05	PUSH SWITCH(4)	
S18		2B		S40-1064-05	PUSH SWITCH(5)	
S19		2D		S40-1064-05	PUSH SWITCH(5)	
S20		2B , 3D		S40-1064-05	PUSH SWITCH(DISP)	
S21		2D		S40-1064-05	PUSH SWITCH(DOWN)	
S22		2C		S40-1064-05	PUSH SWITCH(DOWN)	
S23		2B		S40-1064-05	PUSH SWITCH(DISP)	
S24		2C		S40-1064-05	PUSH SWITCH(DOWN)	
S25		2B		S40-1064-05	PUSH SWITCH(FF)	
S26		2C		S40-1064-05	PUSH SWITCH(FB)	
S27		2C		S40-1064-05	PUSH SWITCH(STOP)	
S28		2B		S40-1064-05	PUSH SWITCH(STOP)	
S29		2C		S40-1064-05	PUSH SWITCH(STOP)	
S30		2B		S40-1064-05	PUSH SWITCH(STOP)	
S32		2B		S40-1064-05	PUSH SWITCH(STOP)	

- × New Parts
- Parts without Parts No. are not supplied.
- Les articles non mentionnés dans la Parts No. ne sont pas fournis.
- Telle ohne Parts No. werden nicht geliefert.

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★ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

DP-R792/R892/R4440

PARTS LIST

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Ref. No.	参照番号	Address	New Parts No.	Parts No.	Description	部品名／規格	Desti- nation 位 置	Re- marks 備考
Q9	Q10 , 11			2SC3311A(Q,R)	TRANSISTOR			
Q13				2SC3311B(B)	TRANSISTOR			
Q13				DT2124BS	DIGITAL TRANSISTOR			
Q14 - 16				UN4212	TRANSISTOR			
				2SC1405(Q,R)	TRANSISTOR			
Q14 - 16				2SC3311A(Q,R)	TRANSISTOR			
Q17				2SD1844(J,K)	TRANSISTOR			
A1				W02-0975-05	ELECTRIC CIRCUIT MODULE	4440		
					MECHANISM (X92-1610-10)			
1	1F	*	A10-2804-11	CHASSIS				
2		*	A15-0071-08	FRAME				
8	3A		D10-2325-04	ROD				
9	1F		D10-3111-03	SLIDER				
10	2D		D10-3112-04	ARM				
11	3B		D13-0879-08	GEAR(MOTOR)				
12	3B		D13-0880-18	GEAR(IDLER)				
13	3B		D13-0881-08	GEAR (FEED)				
14	1F		D13-0905-04	GEAR (IDLER)				
15	1E		D13-0906-04	GEAR (MAIN)				
16	2E		D13-0907-04	GEAR (ROTARY)				
17	3D		D13-0908-03	LACK (GEAR)				
18	1E, 2E		D13-0928-04	GEAR				
22	2D		D14-0327-05	ROLLER ASSY				
23	1D, 2E		D14-0330-05	ROLLER ASSY				
24	2E		D15-0296-04	MOTOR PULLEY				
25	1E, 3E		D16-0282-04	BELT				
30	2B		E31-7919-15	WIRING HARNESS(6P) (SWITCH)				
31	2F		E31-7920-05	WIRING HARNESS(6P) (WHITE/RED)				
32	3B		E31-7921-05	WIRING HARNESS(PU) (WHITE/BLUE)				
33	2B		E31-7922-05	WIRING HARNESS(PU, WHITE/RED)				
36	2E		G01-3321-18	COMPRESSION SPRING				
37	2E		G01-3322-18	COMPRESSION SPRING				
38	1E		G02-0927-04	FLAT SPRING				
39	1E	*	J19-3437-04	BRACKET				
42	3A, 3B	*	J02-1058-15	INSULATOR				
43	1D		J11-0173-03	CLAMPER				
44	1D		J19-3551-03	HOLDER				
45	1D	*	J19-3552-13	BRACKET				
46	1E		J21-5473-14	MOUNTING HARDWARE ASSY				
47	2E		J21-5575-04	MOUNTING HARDWARE ASSY				
48	1E, 1F	*	J30-0667-04	RAIL				
49	2D		J39-0095-11	TRAY(SLIDE)				
50	1D		J39-0096-01	TRAY(ROTARY)				
54	3A		S33-1022-05	LEVER SWITCH				
55	2F		S33-2661-05	LEVER SWITCH				
59	1D		T50-1036-14	Yoke				
60	1D		T59-0222-05	MAGNET				
DM	3B		A11-0779-18	SUB CHASSIS ASSY(DISC MOTOR)				
FM	3A		T42-0566-05	DC MOTOR				
LM	2E		T42-0524-05	DC MOTOR				
PU	2A		T25-0011-05	OPTICAL PICKUP HEAD				
RM	2E		T42-0577-05	DC MOTOR				

U-Scandinavia	USA	P-Canada	792 : DP-R792	892 : DP-R892	4440 : DP-R4440
U- <i>Yt-PX</i> (Far East, Hawaii)	ENG	E-Europe			
U- <i>Yt-AEFC</i> (Ivrea)	Australia	M-Other Areas			
					A indicates codes, not names

nits.

Ref. No.	Address	New Parts No.	Parts No.	Description	部品名／規格	Desti-nation	Re-marks 備考
参照番号	位置	部品番号				仕	
S33	2D	S40-1064-05		PUSH SWITCH(P,P)	892,4440		
S34	2B	S40-1064-05		PUSH SWITCH(P,P)	792		
S35	2B	S40-1064-05		PUSH SWITCH(3)	792		
D1	D1	HSS104					
D2	D2	ISS133		DIODE			
D3	D2	HZS5.1S(B2)		ZENER DIODE			
D3	D3	RDS1JS(B2)		ZENER DIODE			
D3	-10	HSS104		DIODE			
D3	-10	ISS133		DIODE			
D3	-10	HSS104A		DIODE			
D3	-17	HZS5.6N(B2)		ZENER DIODE			
D11	D11	RDS1JS(B2)		ZENER DIODE			
D11	-17	ISS133		DIODE			
D18	D18	HZS5.1S(B2)		ZENER DIODE			
D18	,19	RDS1JS(B2)		ZENER DIODE			
D20	D20	HZS5.1S(B2)		ZENER DIODE			
D20	D21	RDS1JS(B2)		ZENER DIODE			
D21	D21	HZS6.8N(B2)		ZENER DIODE			
D21	,22	RDS1JS(B2)		ZENER DIODE			
D23	D23	SS6888		DIODE			
D23	-27	ISS139		DIODE			
D28	D28	HZS30N(B)		ZENER DIODE			
D28	D29	RD305E(B)		ZENER DIODE			
D29	D29	B30-012-05		ZENER DIODE			
D30	D30	HSS104		DIODE			
D30	,31	ISS133		DIODE			
D32	D32	HZS2.7N(B2)		ZENER DIODE			
D32	D33	RDS2.7JS(B2)		ZENER DIODE			
D33	,34	HSS104		DIODE			
D33	,34	ISS133		DIODE			
D35	D35	SS6888		DIODE			
D35	-38	ISS139-100		FLUORESCENT INDICATOR TUBE			
ED1	2A,2C	FTP10BWM6		IC(OP AMP X2)			
IC1	-4	NJM455D		IC(OP AMP X2)			
IC1	-4	RC455D		IC(OP AMP X2)			
IC5		UPD75116ACW-B99		IC(MICROPROCESSOR)			
IC6		NJM455D		IC(OP AMP X2)			
IC7		CXA1372Q		IC(D/A CONVERTER)			
IC8		CXA1571S		IC(DUAL POWER OP AMP)			
IC9		CXD2550AQ		IC(DUAL RF AMP)			
IC10		NJM455L		IC(SIGNAL PROCESSOR)			
IC11		TA8405		IC(COP AMP X2)			
IC12		TC9237N		IC(MOTOR CONTROL)			
IC13		LA6510		IC(DUAL POWER OP AMP)			
IC14		LA6510		IC(DUAL POWER OP AMP)			
IC14		TA8410AK		IC(POWER OP AMP)			
Q1		2SA1456		TRANSISTOR			
Q2		2SC1923(R,0)		TRANSISTOR			
Q3		2SD1266		TRANSISTOR			
Q4		2SA1534A		TRANSISTOR			
Q5		2SA1954(L,K)		TRANSISTOR			
Q6		2SD1265		DIGITAL TRANSISTOR			
Q6		UN4212		TRANSISTOR			
Q7		2SD1944(J,K)		TRANSISTOR			
Q7		2SA1534A		TRANSISTOR			
Q9		2SC1740S(Q,R)		TRANSISTOR			

L:Scandinavia	K:USA	P:Canada	792 : DP-R792	892 : DP-R892	4440 : DP-R4440
Y:FX(Far East, Hawaii)	T:England	E:Europe			
V:AA/AFS(France)	X:Australia	M:Other Areas			
					↑ indicates safety critical components.

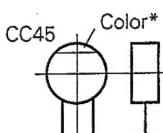
DP-R792/R892/R4440

PARTS LIST

CAPACITORS

CC	45	TH	1H	220	J
1	2	3	4	5	6

1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating
 2 = Shape ... round, square, ect. 5 = Value
 3 = Temp. coefficient 6 = Tolerance



Capacitor value

010 = 1pF
 100 = 10pF
 101 = 100pF
 102 = 1000pF = 0.001μF
 103 = 0.01μF

2 2 0 = 22pF
 T T Multiplier
 2nd number
 1st number

Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

Tolerance

Code	C	D	G	J	K	M	X	Z	P	No code		
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μF	-10 ~ +50	
							-20	-20	-0	Less than 4.7μF	-10 ~ +75	

Less than 10pF

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

DP-R792/R892/R4440

SPECIFICATIONS

[Format]

System Compact disc digital audio
Laser Semiconductor laser
Playing rotation 200~500 rpm (CLV)

[D/A convertors]

D/A conversion 1 bit
Oversampling 8 fs

[Audio]

Frequency response 4 Hz~20 kHz, ± 1.0 dB
Signal to noise ratio More than 94 dB
Dynamic range More than 92 dB
Total harmonic distortion Less than 0.005% at 1 kHz
Channel separation More than 90 dB at 1 kHz
Wow & Flutter Unmeasurable limit
Output level / impedance 1.2 V / 3.3 k Ω
Headphone output : DP-R4440 20 mW (16 Ω)

[General]

Power consumption 15 W
Dimensions W : 440 mm (17-5/16")
: DP-R792 / DP-R892 H : 120 mm (4-3/4")
: DP-R4440 H : 128 mm (5-1/16")
: DP-R792 D : 395 mm (15-9/16")
: DP-R892 D : 391 mm (15-3/8")
: DP-R4440 D : 396 mm (15-9/16")
Weight (Net) : DP-R792 5.5 kg (12.1 lb)
: DP-R892 / DP-R4440 5.6 kg (12.3 lb)

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

2201 East Dominguez Street, Long Beach, CA 90810;

550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

TRIO-KENWOOD U.K. LTD.

KENWOOD HOUSE, Dwight Road, Watford, Herts., WD1 8EB United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrucker-Str. 15, 6056 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD LINEAR S.p.A.

20125, MILANO-VIA ARBE, 50, ITALY

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N 001 499 074)
P.O. BOX 504, 8 FIGTREE DRIVE, AUSTRALIA CENTRE, HOMEBUSH, N.S.W. 2140, AUSTRALIA

KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong